Journal of Embryology and Experimental Morphology

EDITORIAL BOARD

M. ABERCROMBIE (London)
E. C. AMOROSO (London)
J. D. BOYD (Cambridge)
J. BRACHET (Brussels)
F. W. R. BRAMBELL (Bangor)
H. V. BRÖNDSTED (Copenhagen)
A. M. DALCQ (Brussels)
J. D. EBERT (Baltimore)
E. FAURÉ-FREMIET (Paris)
HONOR B. FELL (Cambridge)
L. GALLIEN (Paris)
H. GRÜNEBERG (London)
E. HADORN (Zürich)
V. HAMBURGER (St. Louis)
J. HOLTFRETER (Rochester, N.Y.)
S. HÖRSTADIUS (Uppsala)
F. E. LEHMANN (Bern)
G. V. LOPASHOV (Moscow)
P. B. MEDAWAR (London)
A. MONROY (Palermo)
D. R. NEWTH (London) (*Editor*)
P. D. NIEUWKOOP (Utrecht)
J. PASTEELS (Brussels)
CHR. P. RAVEN (Utrecht)
S. TOIVONEN (Helsinki)
C. H. WADDINGTON (Edinburgh)
V. B. WIGGLESWORTH (Cambridge)
ÉT. C. WOLFF (Paris)
T. YAMADA (Oak Ridge)
J. Z. YOUNG (London)

VOLUME 13

PUBLISHED FOR
THE COMPANY OF BIOLOGISTS LIMITED
CAMBRIDGE UNIVERSITY PRESS

LONDON AND NEW YORK

1965

Contents of Volume 13

Part 1, February 1965

MARIN-PADILLA, M. *and* FERM, V. H. Somite necrosis and developmental malformations induced by vitamin A in the golden hamster. 1

HUGHES, A. A quantitative study of the development of the nerves in the hind-limb of *Eleutherodactylus martinicencis*. 9

FRIEDMAN, H. P. *and* WENGER, B. S. Adult brain antigens demonstrated in chick embryos by fractionated antisera. 35

NARBAITZ, R. *and* TEITELMAN, G. A histochemical study of sex inversion produced by estradiol in chick embryos. 45

BLACKLER, A. W. Germ-cell transfer and sex ratio in *Xenopus laevis*. 51

PRESTIGE, M. C. Cell turnover in the spinal ganglia of *Xenopus laevis* tadpoles. 63

ULLMANN, S. L. Epsilon granules in *Drosophila* pole cells and oöcytes. 73

DANIEL, J. C. Studies on the growth of 5-day-old rabbit blastocysts *in vitro*. 83

SHAFFER, B. M. Cell movement within aggregates of the slime mould *Dictyostelium discoideum* revealed by surface markers. 97

BUTROS, J. Action of heart and liver RNA on the differentiation of segments of chick blastoderms 119

SKAER, R. J. The origin and continuous replacement of epidermal cells in the planarian *Polycelis tenuis* (Iijima). 129

Part 2, April 1965

TOERIEN, M. J. An experimental approach to the development of the ear capsule in the turtle, *Chelydra serpentina*. 141

FERM, V. H. *and* KILHAM, L. Histopathologic basis of the teratogenic effects of H-1 virus on hamster embryos. 151

SALZGEBER, B. *and* SALAÜN, J. Action de la thalidomide sur l'embryon de poulet. 159

CAMPBELL, J. C. An immuno-fluorescent study of lens regeneration in larval *Xenopus laevis*. 171

DWORNIK, J. J. *and* MOORE, K. L. Skeletal malformations in the Holtzman rat embryo following the administration of thalidomide. 181

LEGROS, F. *and* BRACHET, J. Effets de la puromycine sur la mitose, la synthèse des protéines et celle du DNA au cours de la segmentation de l'oeuf de Batracien. 195

SHERBET, G. V. *and* LAKSHMI, M. S. The energetics of cleavage in *Planorbis exustus*. 207

BELLAIRS, R. The relationship between oöcyte and follicle in the hen's ovary as shown by electron microscopy. 215

Part 3, June 1965

MARIN-PADILLA, M. *and* BENIRSCHKE, K. Thalidomide injury to the myocardium of armadillo embryos. 235

LEVAK-ŠVAJGER, B. *and* ŠKREB, N. Intraocular differentiation of rat egg cylinders. 243

ALCONERO, B. B. The nature of the earliest spontaneous activity of the chick embryo. 255

EYAL-GILADI, H. *and* SPRATT, N. T., JR. The embryo-forming potencies of the young chick blastoderm. 267

DEUCHAR, E. M. *and* DRYLAND, A. M. L. Inhibition by α-methyl-norvaline of valine and leucine uptake into protein in the chick embryo. 275

OKADA, T. S. Development of kidney-specific antigens: an immunohistological study. 285

OKADA, T. S. Immunohistological studies on the reconstitution of nephric tubules from dissociated cells. 299

CURTIS, A. S. G. *and* GREAVES, M. F. The inhibition of cell aggregation by a pure serum protein. 309

PASTEELS, J. J. Etude au microscope électronique de la réaction corticale. I. La réaction corticale de fécondation chez *Paracentrotus* et sa chronologie. II. La réaction corticale de l'oeuf vierge de *Sabellaria alveolata*. 327

BILLETT, F. S., COLLINI, R. *and* HAMILTON, L. The effects of D- and L-threo-chloramphenicol on the early development of the chick embryo. 341

Index of Authors

ALCONERO, BARBARA B. The nature of the earliest spontaneous activity of the chick embryo. 255

BELLAIRS, RUTH. The relationship between oöcyte and follicle in the hen's ovary as shown by electron microscopy. 215

BENIRSCHKE, KURT. *See* MARIN-PADILLA, MIGUEL.

BILLET, F. S. The effects of D- and L-threo-chloramphenicol on the early development of the chick embryo. 341

BLACKLER, A. W. Germ-cell transfer and sex ratio in *Xenopus laevis*. 51

BRACHET, J. *See* LEGROS, F.

BUTROS, JOSEPH. Action of heart and liver RNA on the differentiation of segments of chick blastoderms. 119

CAMPBELL, JOHN C. An immuno-fluorescent study of lens regeneration in larval *Xenopus laevis*. 171

COLLINI, ROSALBA. *See* BILLETT, F. S.

CURTIS, A. S. G. The inhibition of cell aggregation by a pure serum protein. 309

DANIEL, JOSEPH C., JR. Studies on the growth of 5-day-old rabbit blastocysts *in vitro*. 83

DEUCHAR, E. M. Inhibition by α-methyl-norvaline of valine and leucine uptake into protein in the chick embryo. 275

DRYLAND, A. M. L. *See* DEUCHAR, E. M.

DWORNIK, J. J. Skeletal malformations in the Holtzman rat embryo following the administration of thalidomide. 181

EYAL-GILADI, HEFZIBAH. The embryo forming potencies of the young chick blastoderm. 267

FERM, VERGIL H. Histopathologic basis of the teratogenic effects of H-1 virus on hamster embryos. 151

FERM, VERGIL H. *See* MARIN-PADILLA, MIGUEL.

FRIEDMAN, HARVEY P. Adult brain antigens demonstrated in chick embryos by fractionated antisera. 35

GREAVES, M. F. *See* CURTIS, A. S. G.

HAMILTON, LOUIE. *See* BILLETT, F. S.

HUGHES, ARTHUR. A quantitative study of the development of the nerves in the hind-limb of *Eleutherodactylus martinicensis*. 9

KILHAM, LAWRENCE. *See* FERM, VERGIL H.

LAKSHMI, M. S. *See* SHERBET, GAJANAN V.

LEGROS, F. Effets de la puromycine sur la mitose, la synthèse des protéines et celle du DNA au cours de la segmentation de l'oeuf de Batracien. 195

LEVAK-ŠVAJGER, B. Intraocular differentiation of rat egg cylinders. 243

MARIN-PADILLA, MIGUEL. Somite necrosis and developmental malformations induced by vitamin A in the golden hamster. 1

MARIN-PADILLA, MIGUEL. Thalidomide injury to the myocardium of armadillo embryos. 235

MOORE, K. L. *See* DWORNIK, J. J.

Index of Authors

NARBAITZ, ROBERTO. A histochemical study of sex inversion produced by estradiol in chick embryos. 45

OKADA, T. S. Development of kidney-specific antigens: an immunohistological study. 285

OKADA, T. S. Immunohistological studies on the reconstitution of nephric tubules from dissociated cells. 299

PASTEELS, JEAN J. Etude au microscope electronique de la réaction corticale. 327

PRESTIGE, M. C. Cell turnover in the spinal ganglia of *Xenopus laevis* tadpoles. 63

SALAÜN, JOSSELYNE. *See* SALZGEBER, BERTHE.

SALZGEBER, BERTHE. Action de la thalidomide sur l'embryon de poulet. 159

SHAFFER, B. M. Cell movement within aggregates of the slime mould *Dictyostelium discoideum* revealed by surface markers. 97

SHERBET, GAJANAN V. The energetics of cleavage in *Planorbis exustus*. 207

SKAER, R. J. The origin and continuous replacement of epidermal cells in the planarian *Polycelis tenuis* (Iijima). 129

ŠKREB, N. *See* LEVAK-ŠVAJGER, B.

SPRATT, NELSON T., JR. *See* EYAL-GILADI, HEFZIBAH.

TEITELMAN, GLADYS. *See* NARBAITZ, ROBERTO.

TOERIEN, M. J. An experimental approach to the development of the ear capsule in the turtle, *Chelydra serpentina*. 141

ULLMANN, SUZANNE L. Epsilon granules in *Drosophila* pole cells and oöcytes. 73

WENGER, BYRON S. *See* FRIEDMAN, HARVEY P.